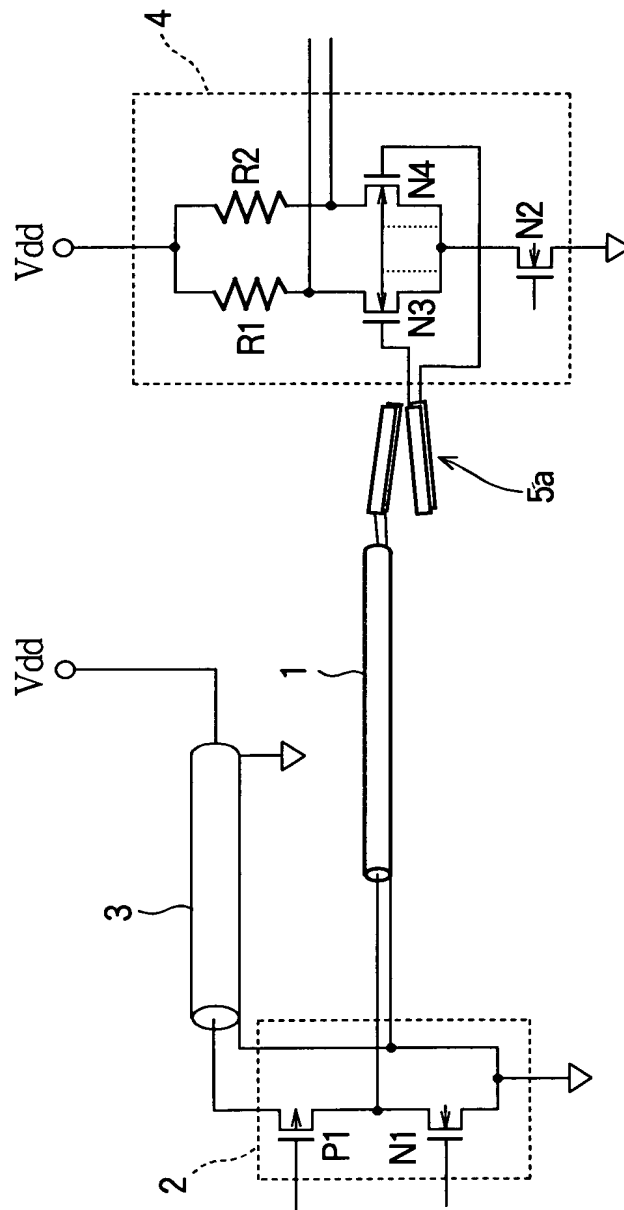
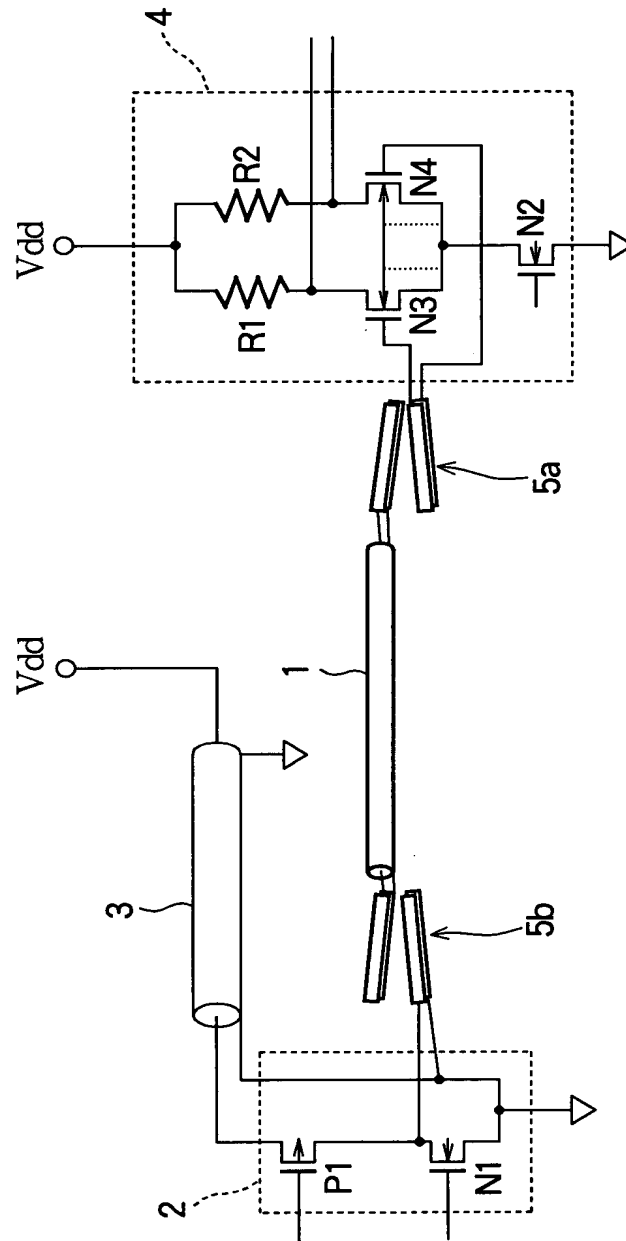


FIG.1



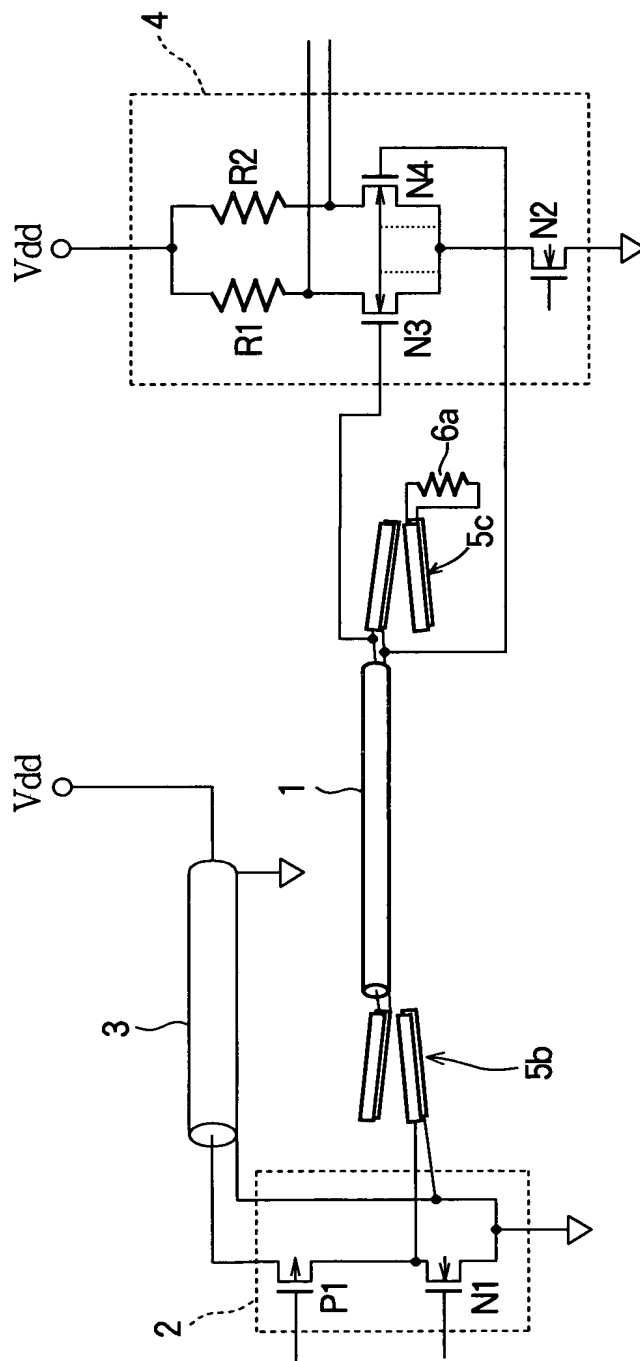
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FIG.2



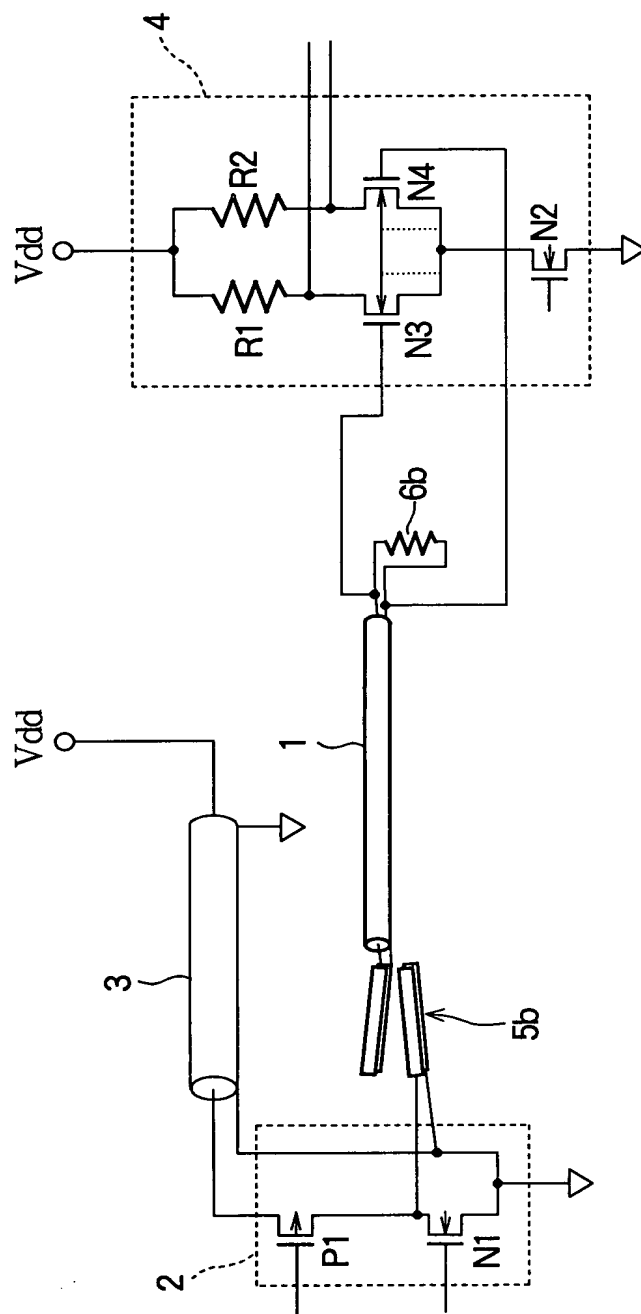
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FIG.3



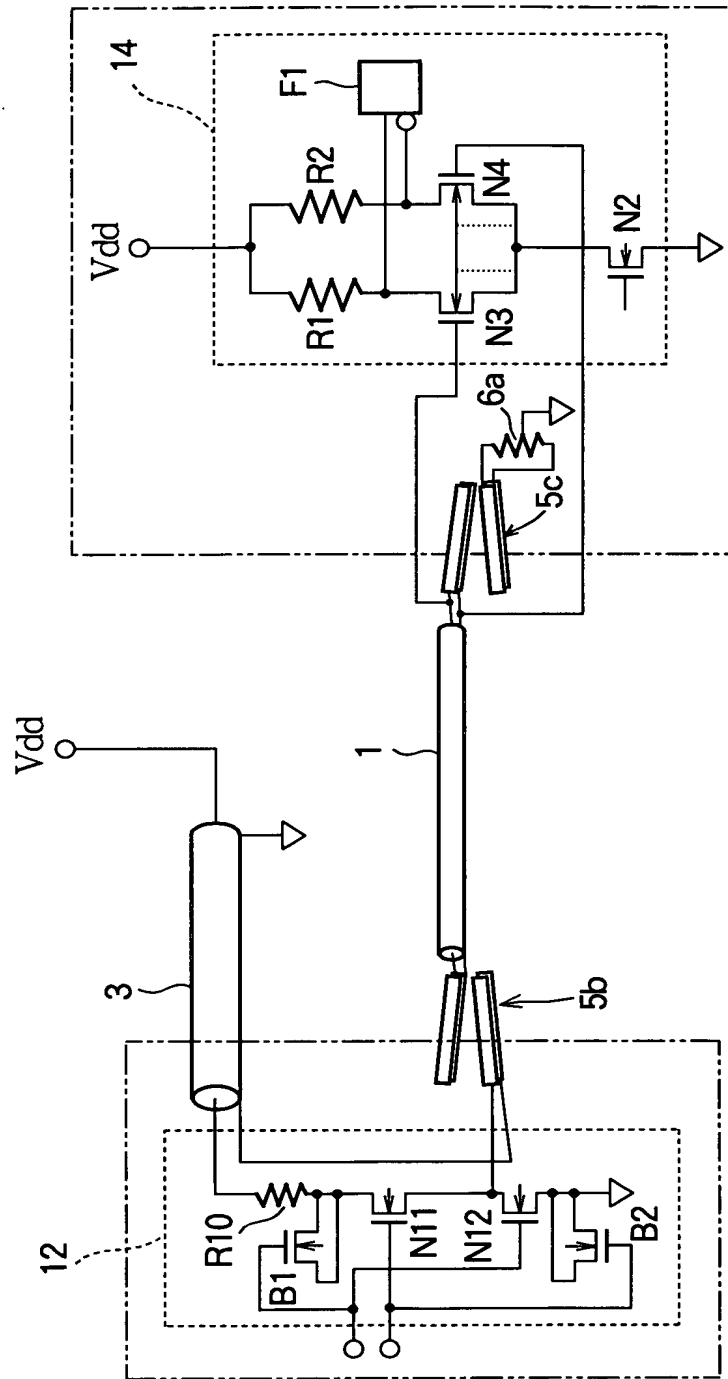
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FIG. 4



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FIG.5



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FIG. 6

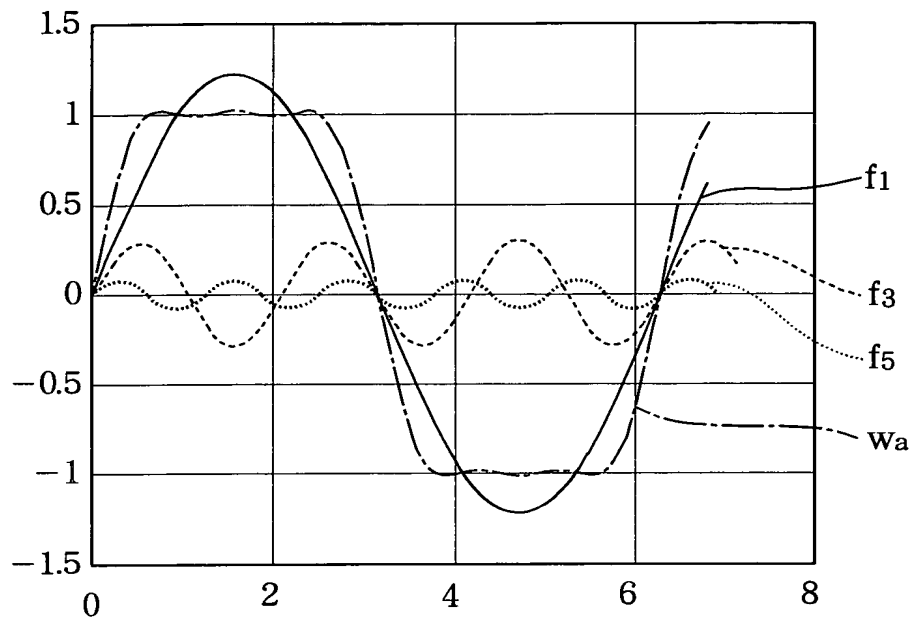


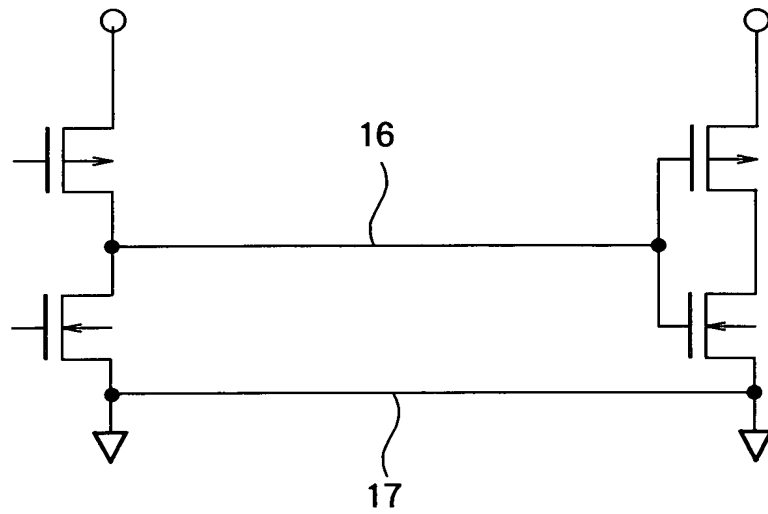
FIG. 7

f [MHz]	10f [GHz]	$L_{\text{Global-Min}}(\text{m})$ $v=1 \times 10^5 \text{ m/s}$	$L_{\text{Global-Min}}(\text{m})$ $v=1.5 \times 10^5 \text{ m/s}$	$L_{\text{Global-Min}}(\text{m})$ $v=2 \times 10^5 \text{ m/s}$
5	0.05	0.5	0.75	1
10	0.1	0.25	0.375	0.5
50	0.5	0.05	0.075	0.1
80	0.8	0.03125	0.0375	0.025
100	1	0.025	0.0375	0.05
300	3	0.008325	0.012485	0.01665
500	5	0.005	0.0075	0.01
1000 (1GHz)	10	0.0025	0.00375	0.005
10000 (10GHz)	100	0.00025	0.000375	0.0005
100GHz	1000	25 $\mu\text{m}$	37.5 $\mu\text{m}$	50 $\mu\text{m}$

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FIG. 8

PRIOR ART

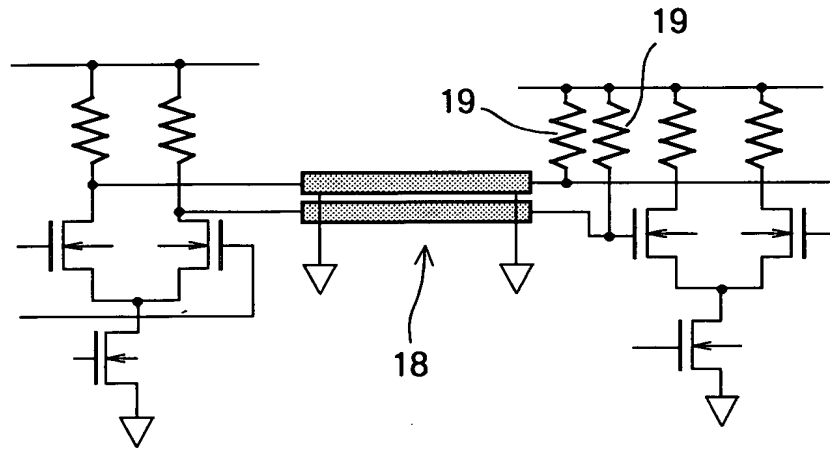




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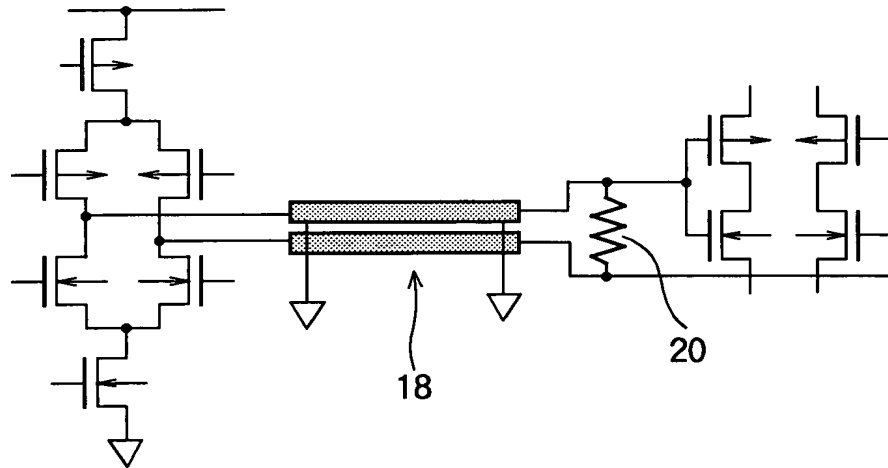
## FIG. 9A

PRIOR ART



## FIG. 9B

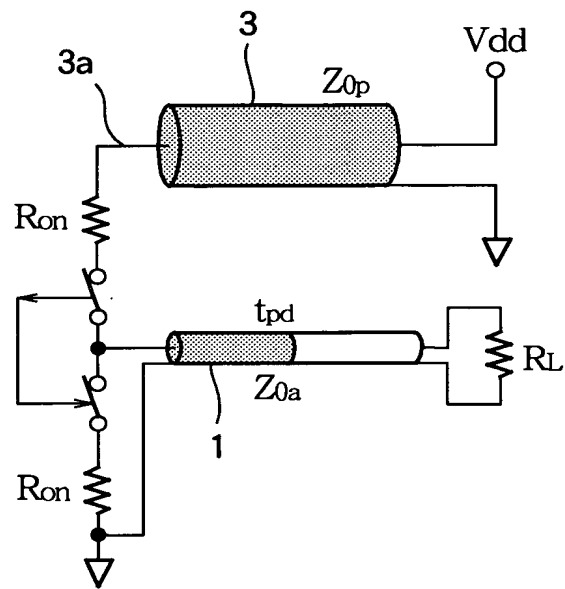
PRIOR ART



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# FIG. 10

PRIOR ART



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FIG.11A

FIG.11B

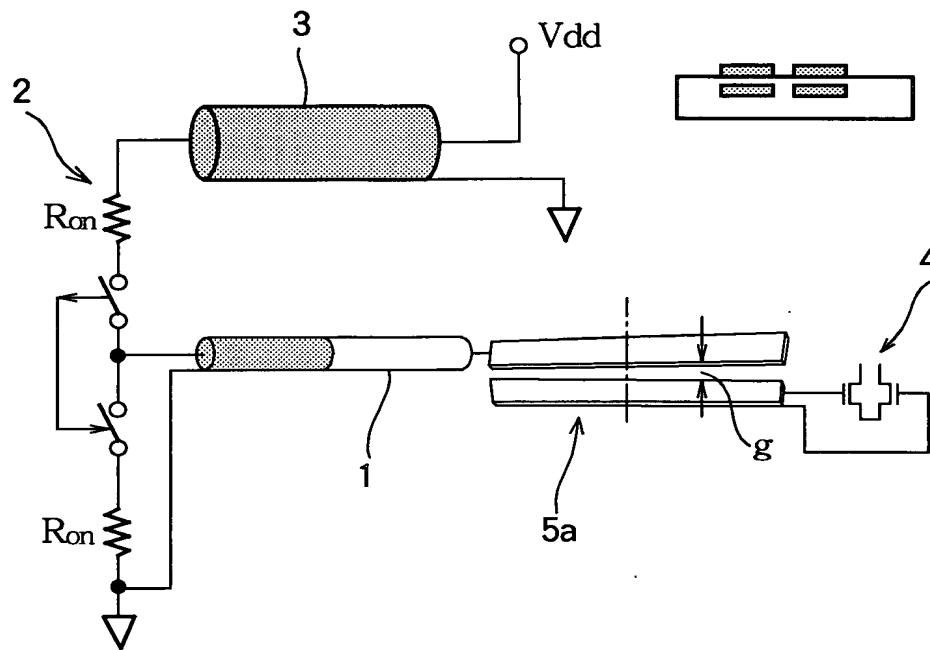
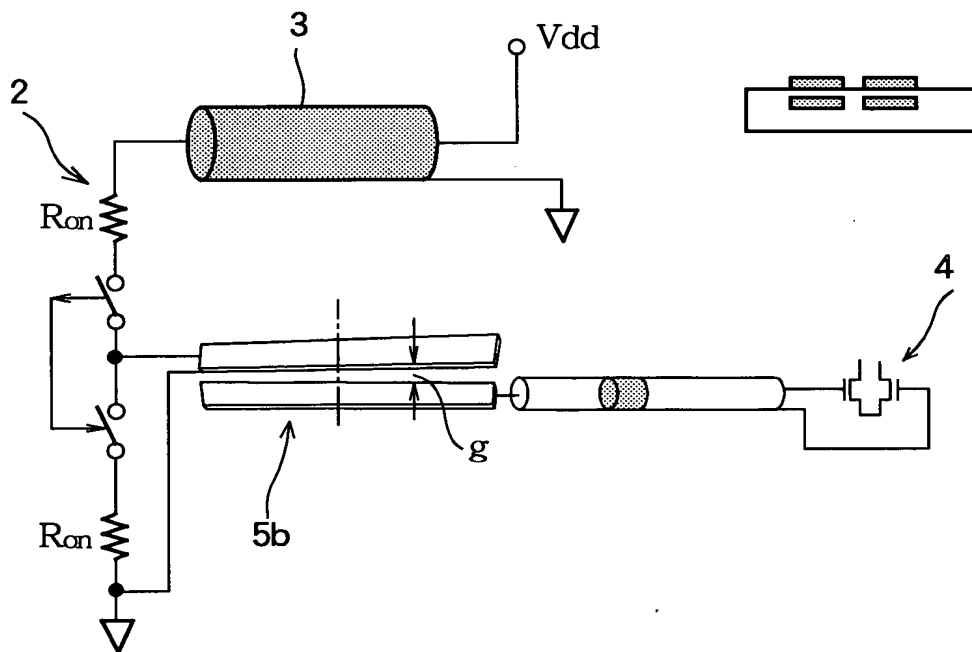


FIG.11C

FIG.11D



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FIG.12A

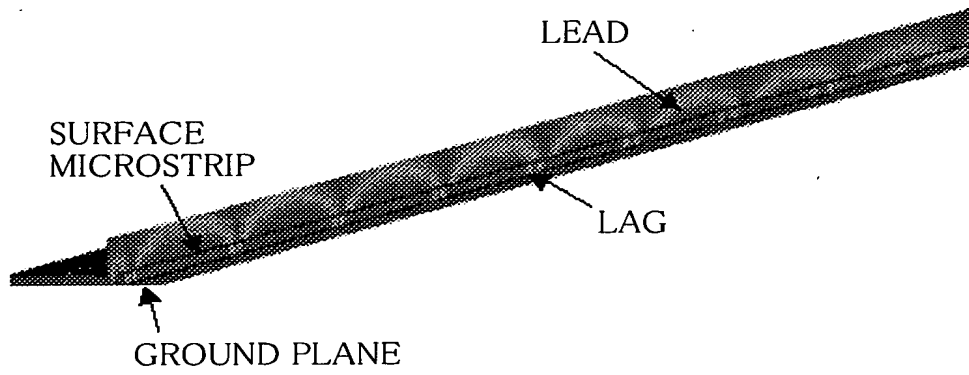


FIG.12B

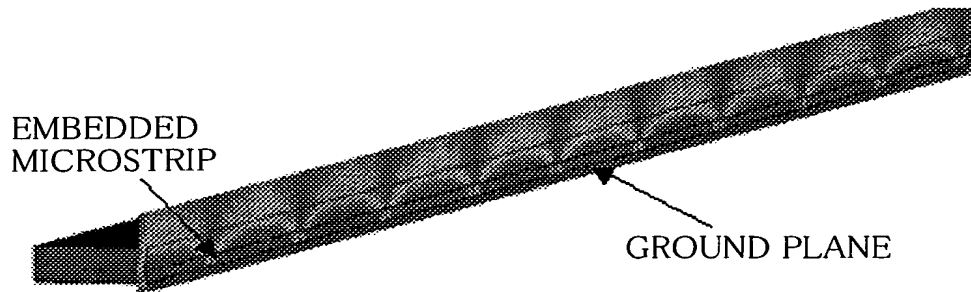


FIG.12C

0 V/m  1.31e+004 V/m

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FIG. 13A

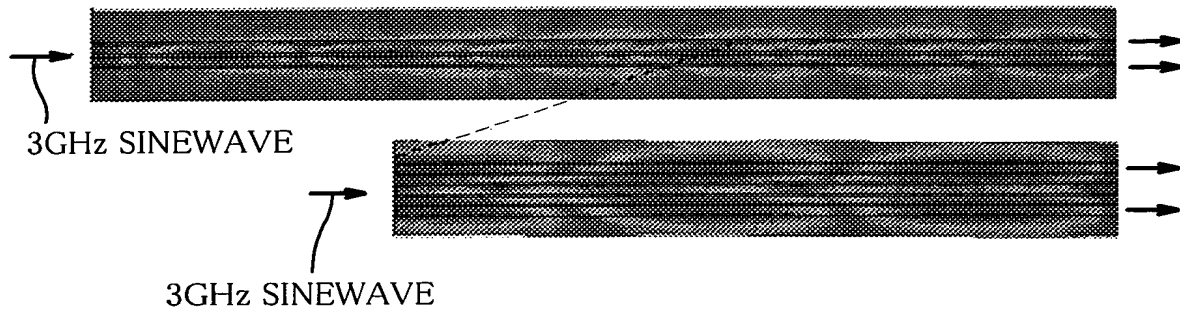


FIG. 13B

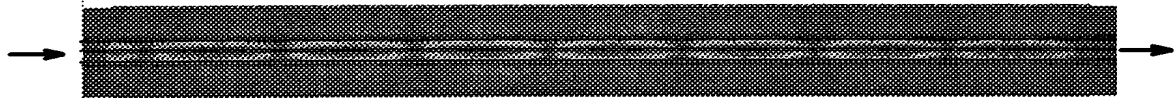


FIG. 13C

0 V/m  1.31e+004 V/m

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FIG.14A

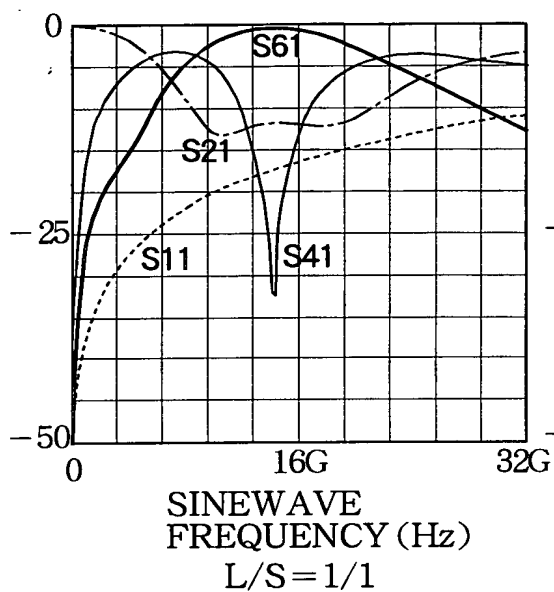


FIG.14B

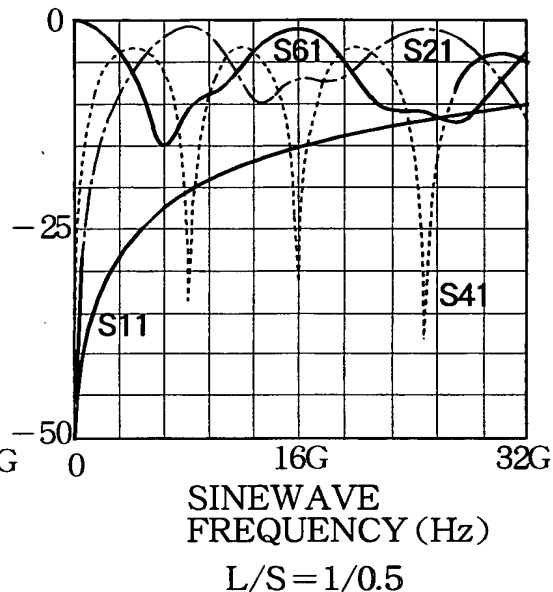
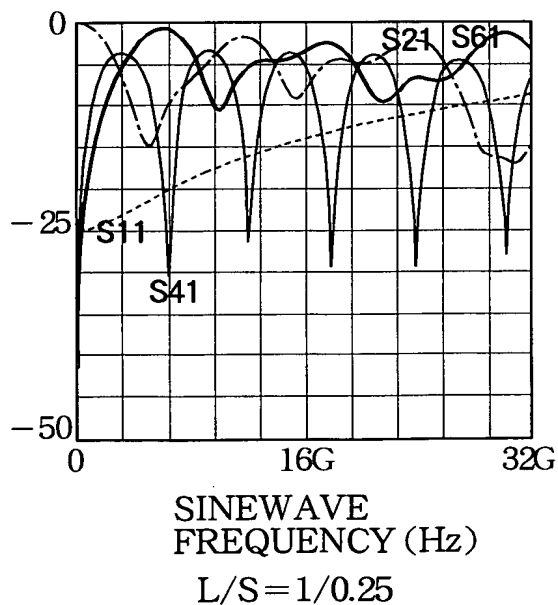
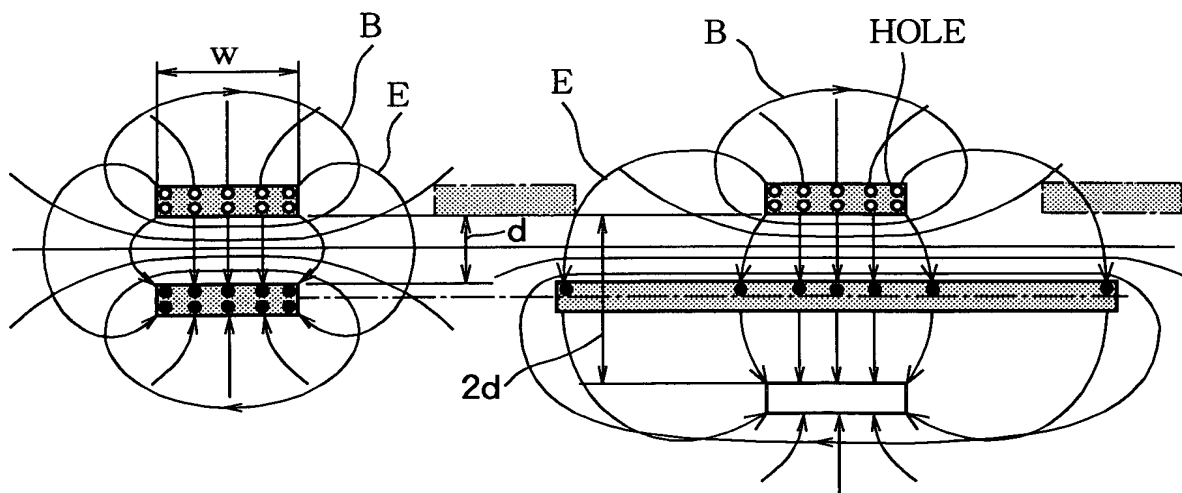


FIG.14C





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FIG.17A

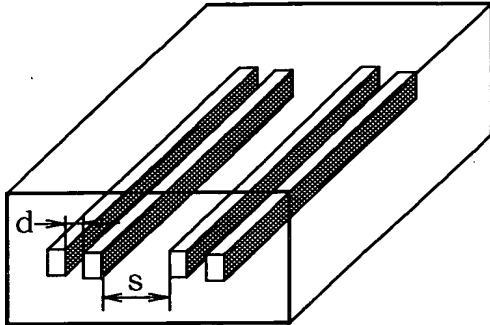


FIG.17B

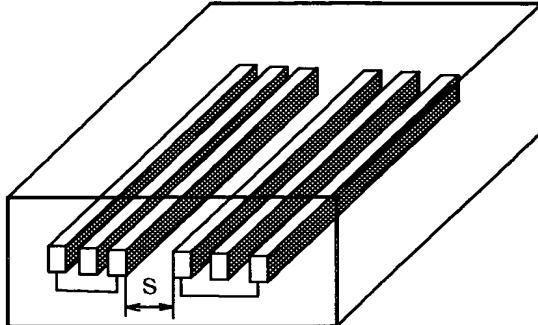


FIG.17C

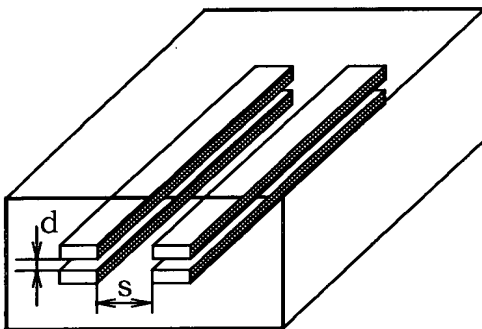


FIG.17D

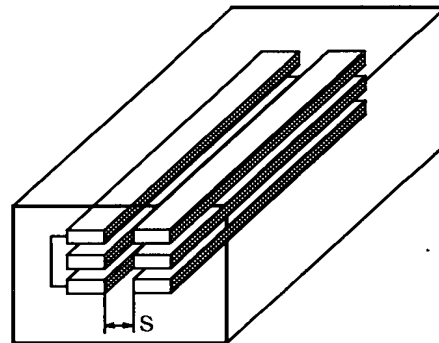
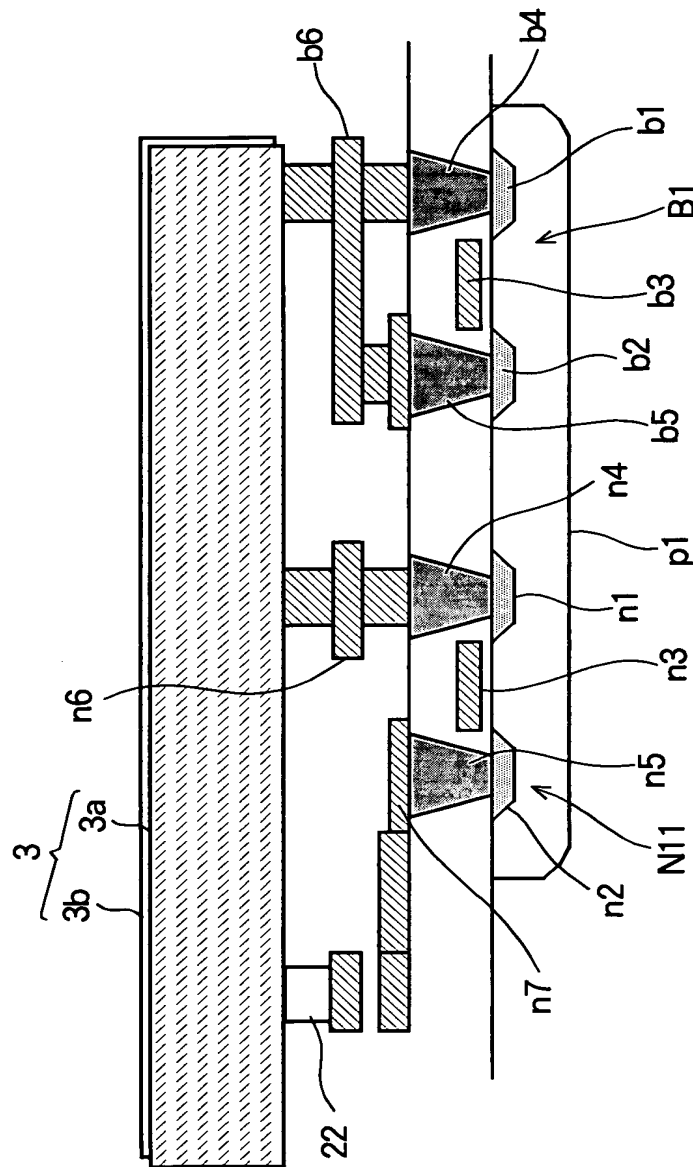






FIG.19



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FIG.20A

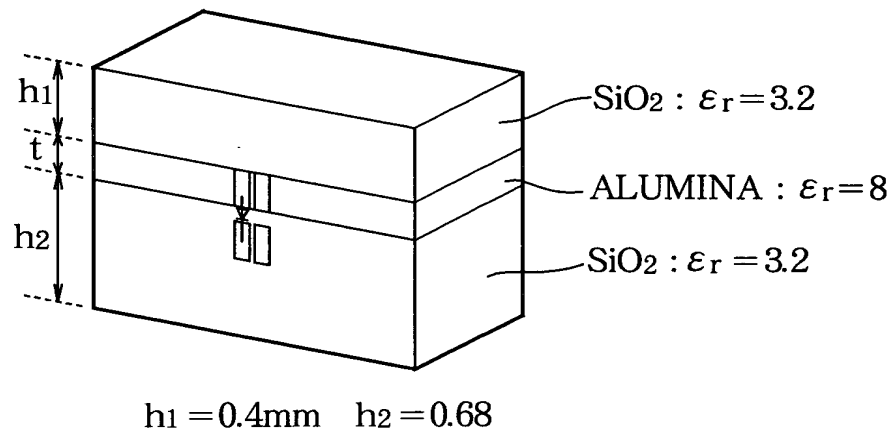


FIG.20B

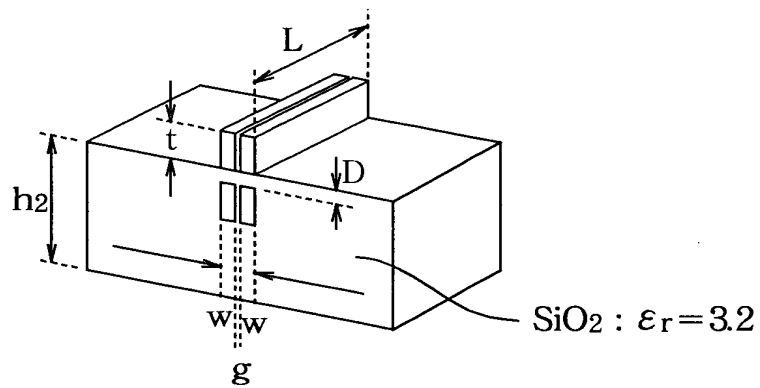
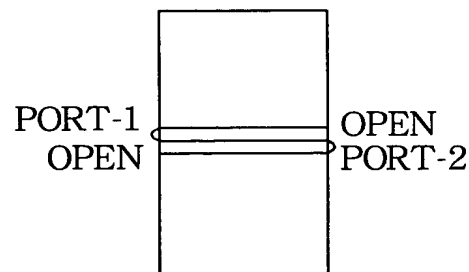


FIG.20C



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## FIG.21

SCALE	1	1/100	1/1000
L	1mm	10 $\mu$ m	1 $\mu$ m
w	0.08mm	0.8 $\mu$ m	80nm
g	0.01mm	0.1 $\mu$ m	10nm
t	0.2mm	2 $\mu$ m	0.2 $\mu$ m
D	0.08mm	0.8 $\mu$ m	80nm

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FIG.22A

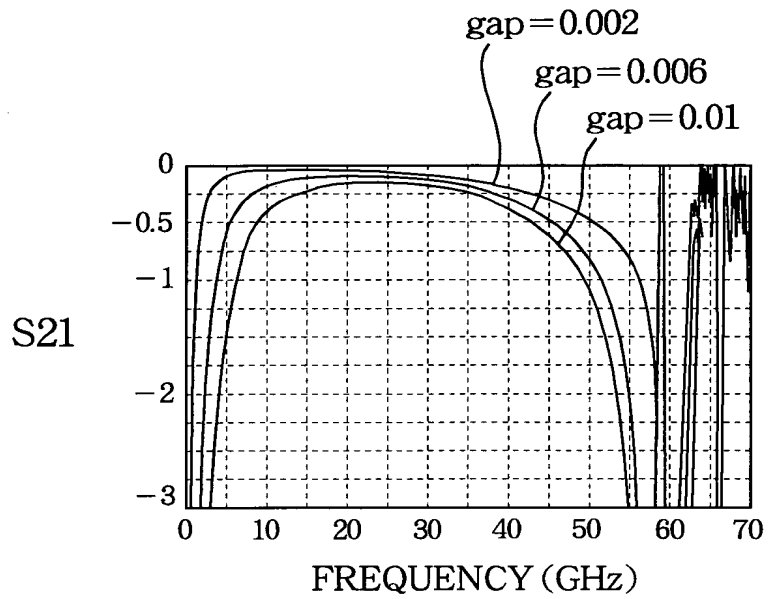
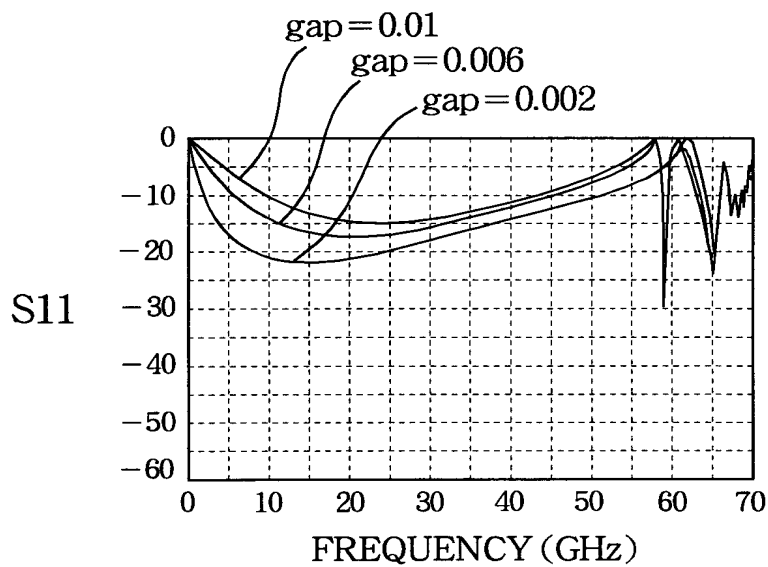


FIG.22B



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FIG.23A

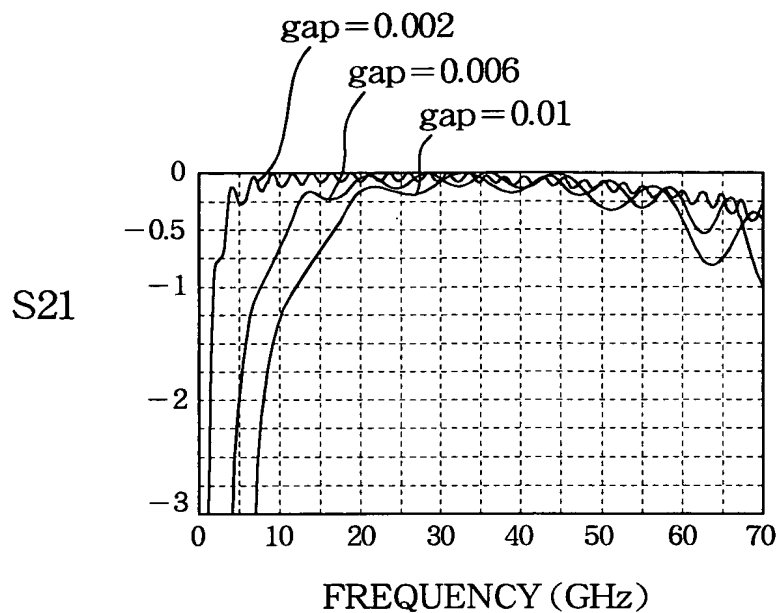
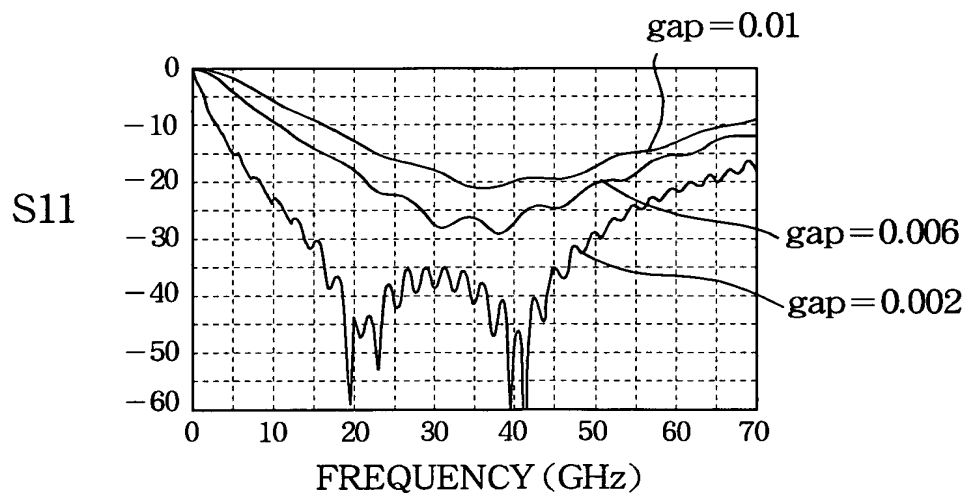


FIG.23B



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FIG.24A

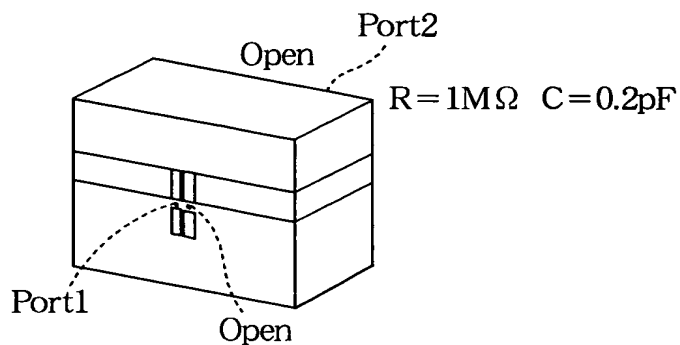


FIG.24B

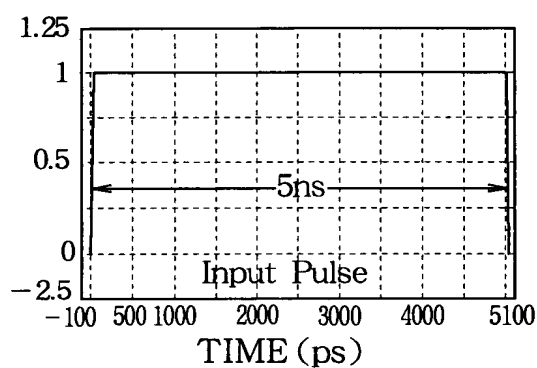


FIG.24C

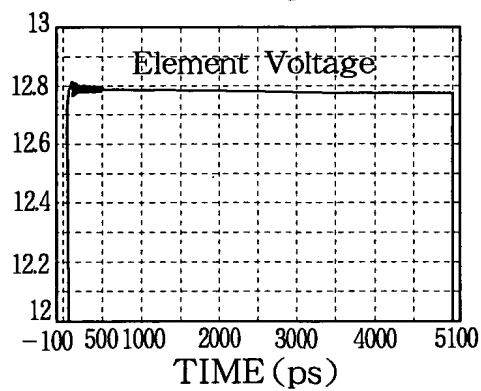
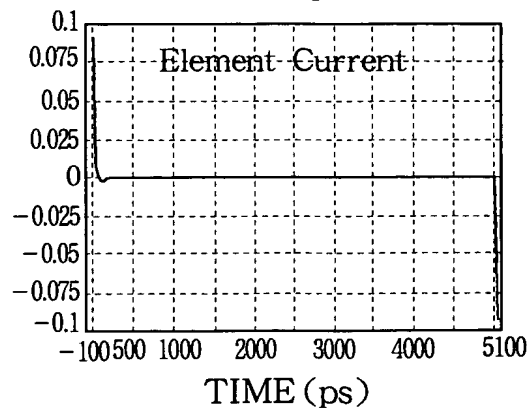


FIG.24D



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FIG.25A

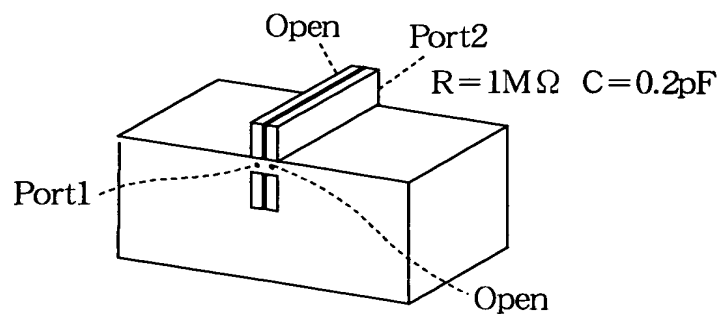


FIG.25B

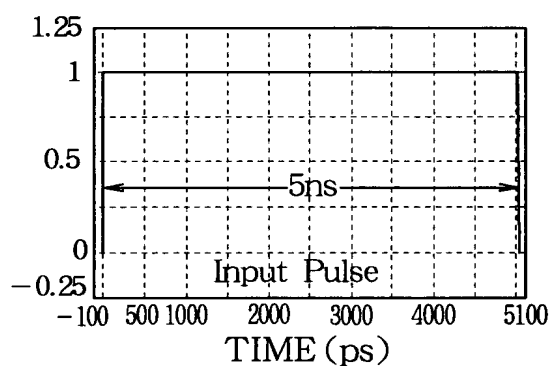


FIG.25C

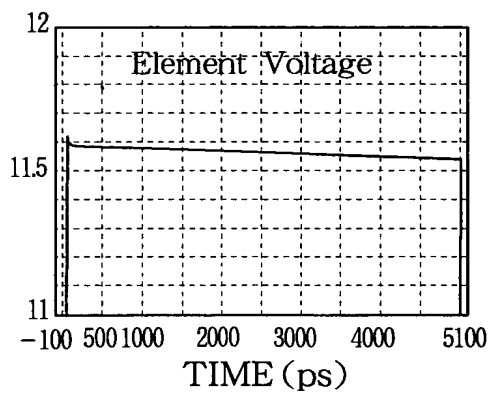
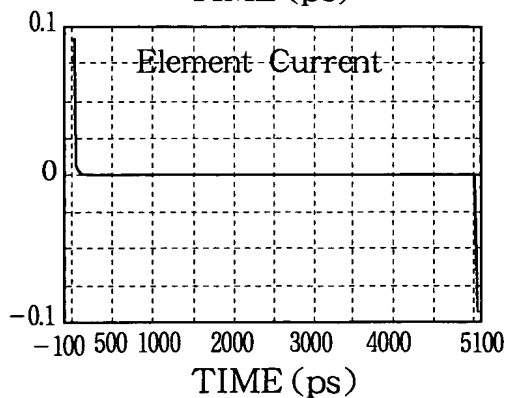


FIG.25D





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FIG. 26

